

A1
Conced.

4 an electrically conductive path having a first end coupled to the first
5 terminal;

6 a first coil resiliently mounted within the housing and coupled to the
7 first end of the electrically conductive path;

8 a second terminal positioned on a second end of the housing;

9 a second end of the electrically conductive path coupled to the second
10 terminal ;

11 a second coil resiliently mounted within the housing and coupled to the
12 second end of the electrically conductive path; and

13 a magnet mounted within the housing.

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1 11. A geophone, comprising:

2 a housing including a first end and a second end opposite the first end;

3 a first end plate coupled to the first end of the housing;

4 a second end plate coupled to the second end of the housing;

5 a first end plate support coupled to the first end plate;

6 a second end plate support coupled to the second end plate;

7 a first magnet support coupled to the first end plate support;

8 a second magnet support coupled to the second end plate support;

9 a magnet coupled to the first and second magnet supports;

10 a first resilient ring coupled to the first end plate support;

11 a second resilient ring coupled to the second end plate support;

12 a first spring coupled to the first end plate support;

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cont.

A2
Contd.

13 a second spring coupled to the second end plate support;
14 a first coil support coupled to the first spring;
15 a second coil support coupled to the second spring;
16 a first coil coupled to the first coil support; and
17 a second coil coupled to the second coil support.

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A3

1 20. A seismic acquisition system, comprising:
2 at least one geophone, each geophone comprising:
3 a housing;
4 a first electrically conductive terminal on one end of the housing;
5 a first coil resiliently mounted within the housing and operably coupled
6 to the first terminal;
7 a second electrically conductive terminal on a second end of the
8 housing;
9 a second coil resiliently mounted within the housing and operably
10 coupled to the second terminal;
11 a magnet mounted within the housing; and
12 a controller operably coupled to the geophone.

A4
Contd.

1 44. A geophone having a plurality of first electrically conductive parts and a
2 plurality of second electrically conductive parts, the first plurality of parts being
3 interconnected to form an electrically conductive pathway, the electrically conductive
4 pathway being insulated from the second plurality of parts by an electrically

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could.

5 insulating layer disposed on a surface of one of the electrically conductive pathway
6 and the second plurality of parts.

A5
1 46. A geophone housing comprising a housing, a first terminal positioned on a first
2 end of the housing and a second terminal positioned on a second end of the
3 housing.

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